

FIG. 1

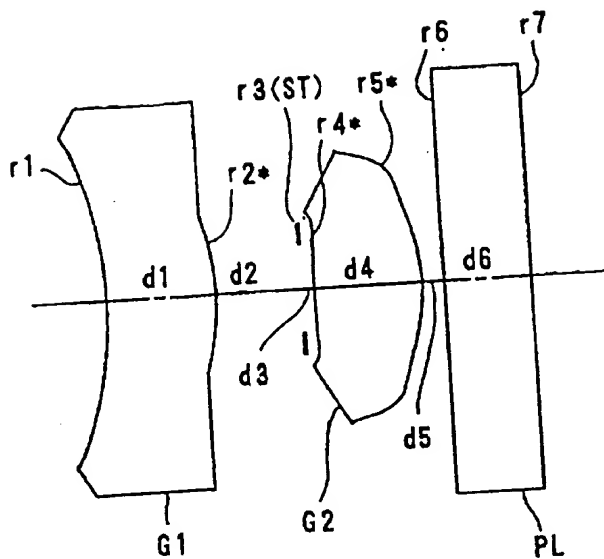
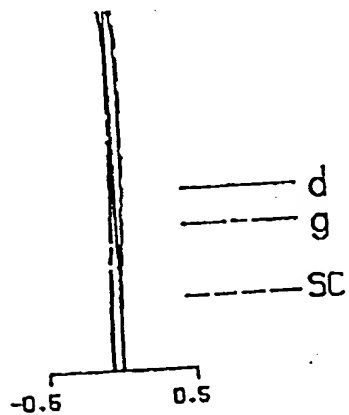


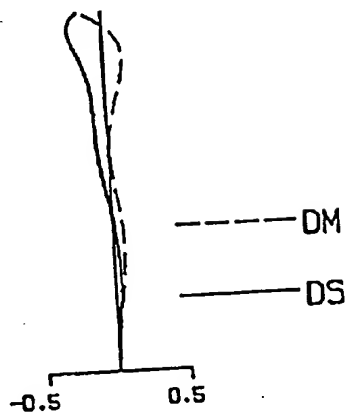
FIG. 2A
FNO=2.88



SPHERICAL
ABERRATION

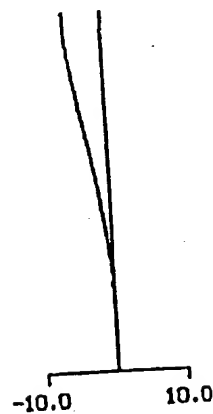
SINE
CONDITION

FIG. 2B
Y*=1.3



ASTIGMATISM

FIG. 2C
Y*=1.3



DISTORTION %

2000 1000 500 0

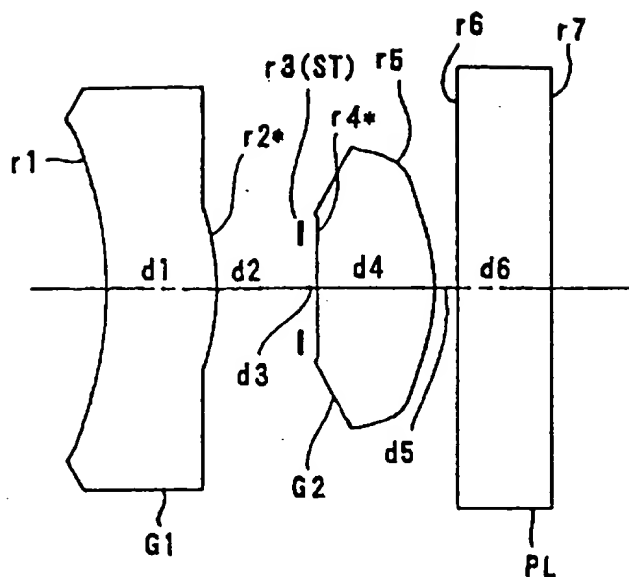
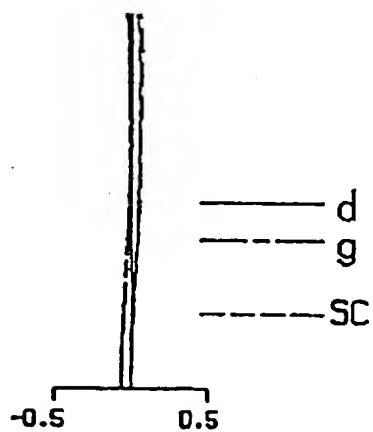


FIG. 4A

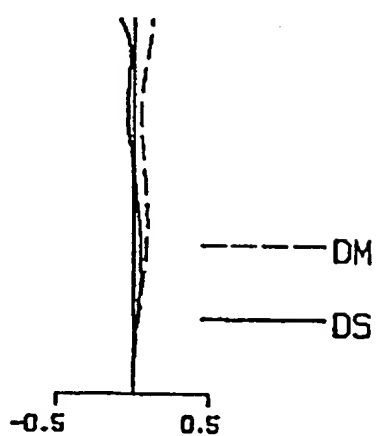
FND-2.68



SPHERICAL SINE
ABERRATION CONDITION

FIG. 4B

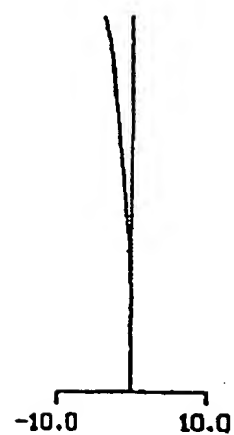
Y' = 1.3



ASTIGMATISM

FIG. 4C

Y'-1.3



Distortion %

FIG. 5

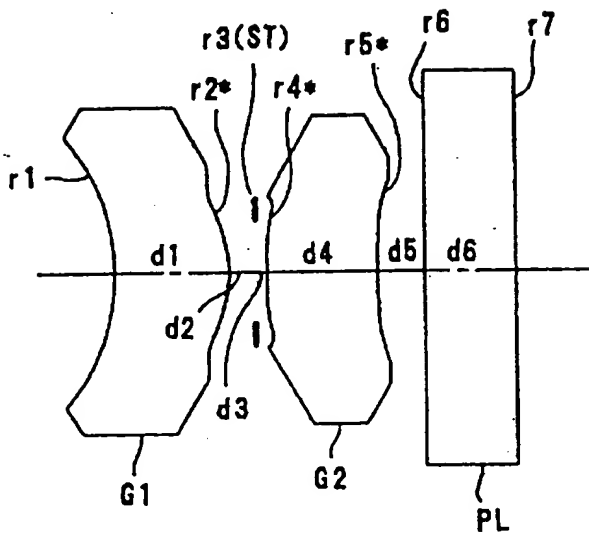


FIG. 6A

FNO-2.88

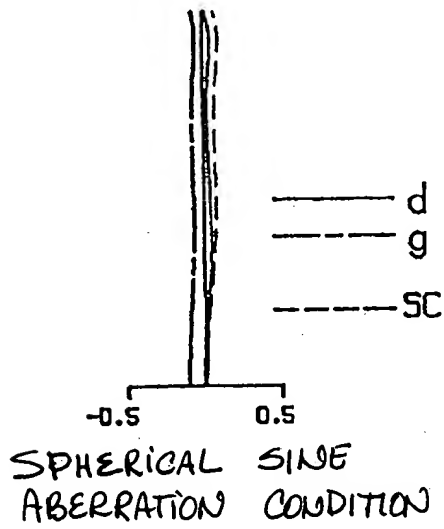


FIG. 6B

$Y' = 1.3$

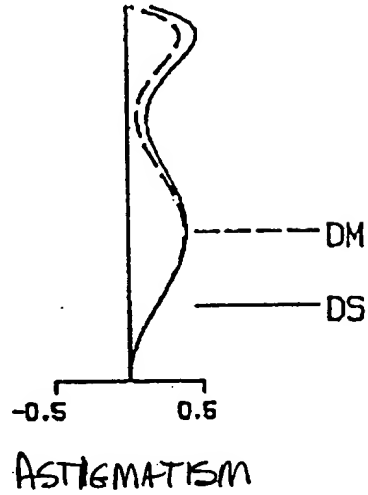


FIG. 6C

$Y' = 1.3$

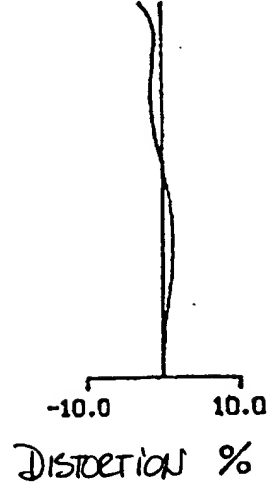


FIG. 7

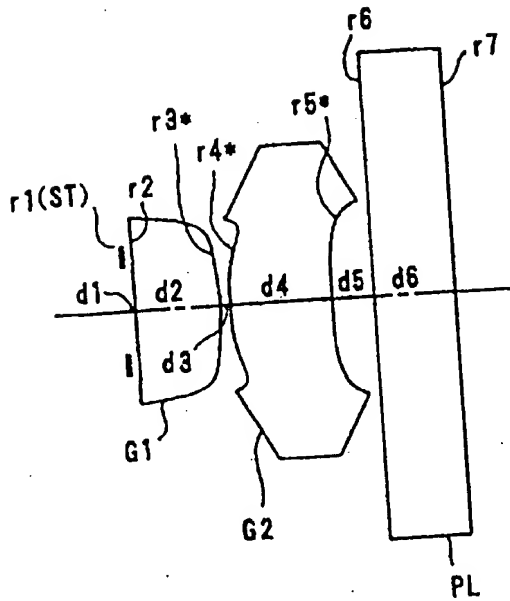


FIG. 8A

$FNO=2.88$

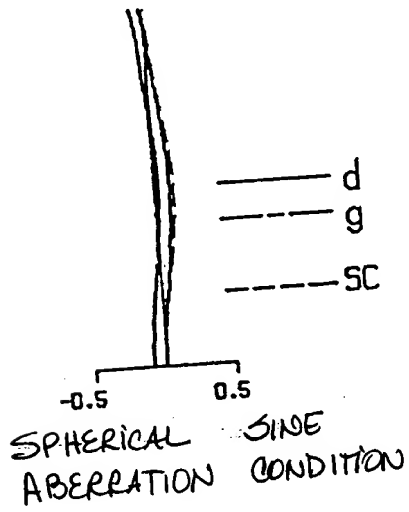


FIG. 8B

$Y'=1.0$

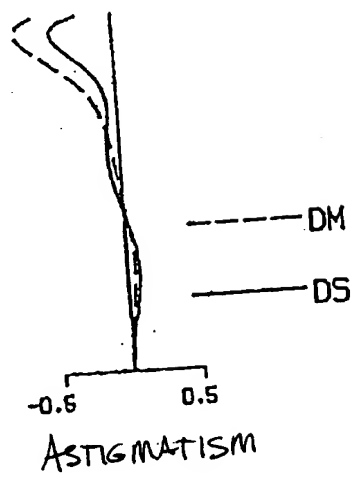


FIG. 8C

$Y'=1.0$

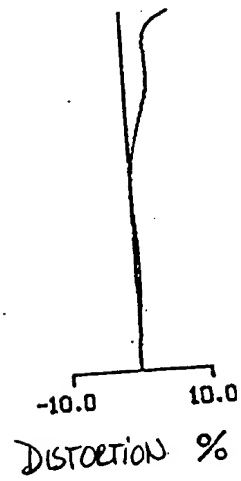


FIG. 9

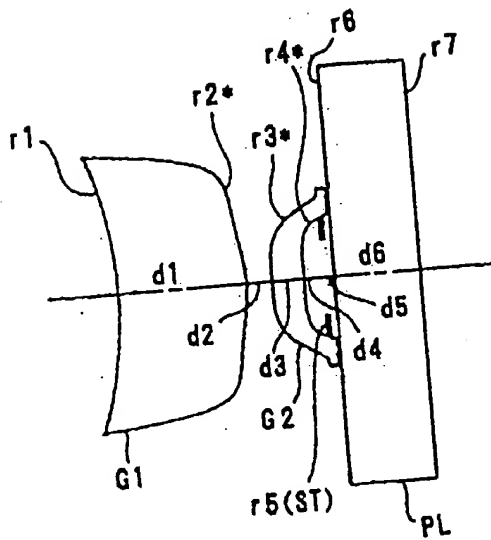


FIG. 10A
FNO-2.88

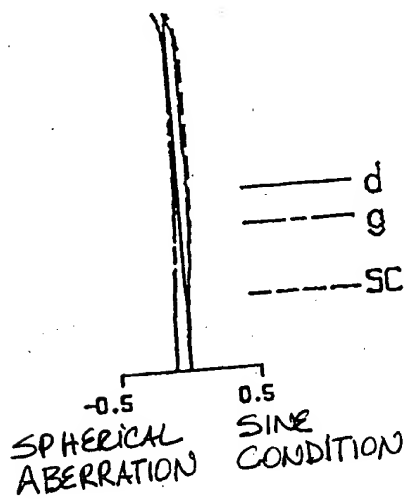


FIG. 10B
Y'-1.0

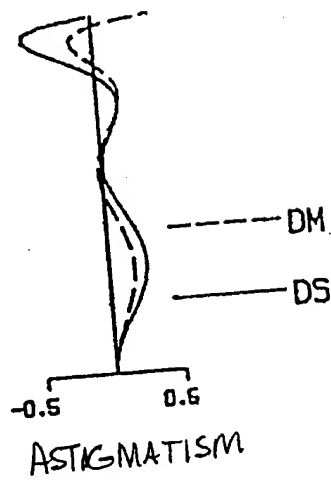


FIG. 10C
Y'-1.0

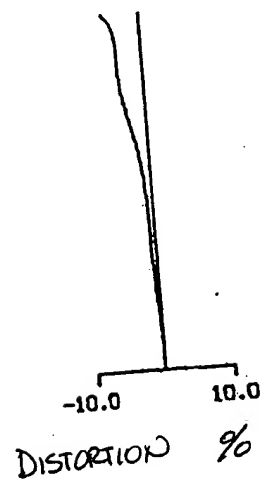


FIG. 11

